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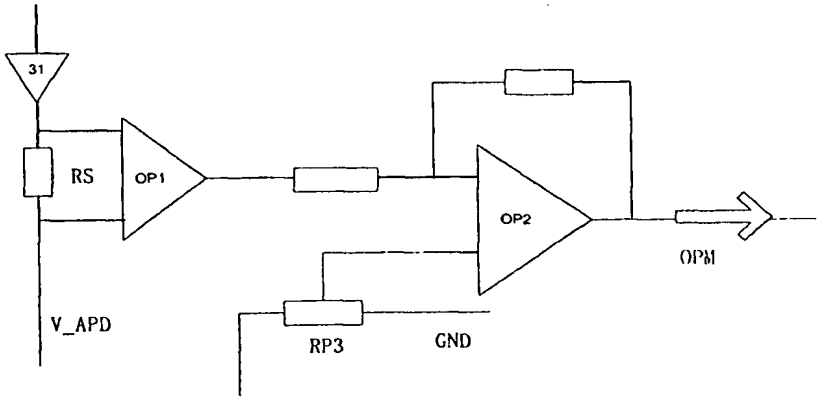
(54) Title: DIGITAL REGULATED LIGHT RECEIVE MODULE AND REGULATION METHOD

(54) 发明名称: 数字调节光接收模块及其调节方法



(57) Abstract: The present invention discloses a digital monitored, regulated light receive module and regulation method, real-time monitoring, regulation on-line and nonlinear compensating function for the parameter of the light receive module are implemented by the digital technique. Light module comprises light-electric conversion circuit (21), light power examined voltage output circuit (24), bias voltage regulation circuit which is composed of direct-current/direct-current (DC/DC) voltage risen circuit, analog/digital (A/D) conversion circuit (26), digital control regulation circuit (25) and storage (27). By using digital potentiometer or A/D conversion circuit (25), digital regulating the light module on-line, digital compensating laser pipe's bias voltage and digital compensating hidden-current are implemented; real-time monitors inputting light power, the temperature variety of the laser pipe and bias voltage value by using A/D circuit (26); stores the parameters of light module with storage, on-line query and comparison with such as light power output from A/D circuit (26), temperature value are provided for regulation or keeping DA.

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